

**What is Claimed:**

1. A recording medium comprising:

a plurality of sectors, wherein digital transport stream units are sequentially recorded in one of the sectors, each transport stream unit having a predetermined length, and a received transport stream unit is recorded across the remaining area of the one of the sectors and the next sector if the size of the remaining area of the one of the sectors is less than the length of the received transport stream unit.

2. The recording medium as set forth in claim 1, wherein information on the number of transport stream units contained in a sector is recorded on the recording medium, where this number varies based on a transport stream unit recorded across two sectors.

3. The recording medium as set forth in claim 1, wherein transport stream units whose leading bits have been recorded in an associated sector are counted and the counted number is recorded on the recording medium as the number of transport stream units contained in the associated sector.

4. The recording medium as set forth in claim 1, wherein information is recorded on a start position of a first transport stream unit of a sector, the start position varying as a transport stream unit is recorded across two sectors.